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ICT Bill Acceptor Firmware Upgrade Guide

Purpose

This document explains how to upgrade the ICT bill acceptor on your TouchTunes jukebox or SmartJuke with new firmware to improve compatibility and/or add support for new bank notes.

The material presented in this document is applicable to all TouchTunes jukebox and SmartJuke models equipped with bill acceptors manufactured by ICT.

Audience

- All operators who operate jukeboxes and/or smartjukes which contain ICT bill acceptors
- TouchTunes field service and customer support

Estimated Time

30minutes

Required Personnel

1 Technician

This document includes the following task types:

☐	Software
☑	Electrical
☐	Mechanical
☐	Packaging

Disclaimer

TouchTunes Interactive Networks is not responsible for any damage resulting from the improper execution of these procedures nor from the installation or connection of any other external equipment to your jukebox.

Topics

- Included in the Bill Acceptor Programmer Kit
- Preliminary Steps
- Programming your Bill Acceptor
- Testing the Upgrade
- Labeling the Upgraded Bill Acceptor
- Contacting TouchTunes Technical Support

Included in the Bill Acceptor Programmer Kit

Ensure that you have received all the required parts before proceeding with this installation.

Part	Amount	TouchTunes Part #
ICT FP-001 Field Programming Module	1	500020-001
RJ-45 connector cable	1	supplied with FP-001
Power supply, 24 VDC	1	300780-001
Cable to connect power supply to bill acceptor 12”	1	300831-012
White card for programming V6 bill acceptors (USA)	1	900752-001
White card for programming V7 bill acceptors (Canada)	1	900753-001
This document	1	900729-001

Required Tools and Equipment

- All the parts listed above as being included in the kit
- Phillips head #2 screwdriver

Preliminary Steps

Take the bill acceptor out of the jukebox:

1. Remove the bill stacker so you can more easily access the bill acceptor.
2. Disconnect the cable that comes from the squid and goes into the side of the bill acceptor.
3. Remove the four screws that hold the bill acceptor in place. Set these screws aside for later.
4. Pull the bill acceptor out of its bay.

The 3-position switch on the Programming Module must be set to position L1 before connecting it to the bill acceptor:

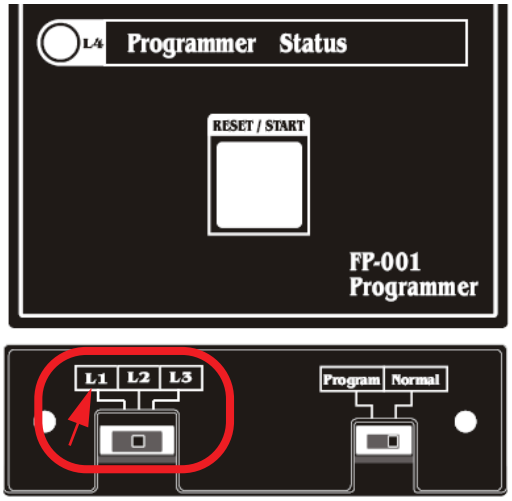

Figure 1: ICT FP-001 Field Programming Module (location of 3-position switch)

Connect the power supply, bill acceptor and the programmer together, as shown in the diagram below:

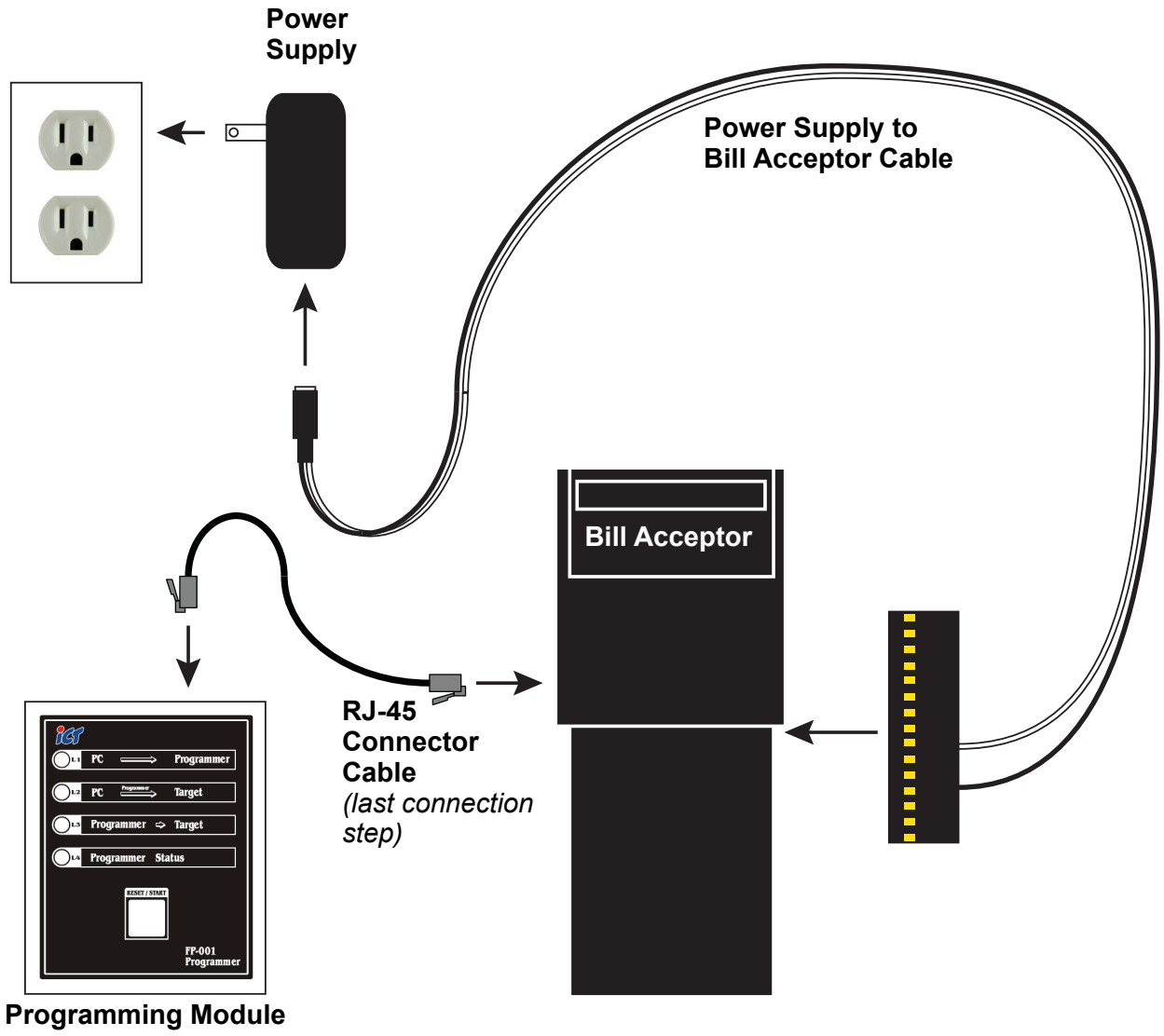

Figure 2: Connection diagram

Your last connection step should be to connect the Programming Module to the bill acceptor, using the RJ-45 Connector Cable. Figure 3 below shows how to locate the RJ-45 port on the bill acceptor:

Figure 3: Bill acceptor, showing RJ-45 port, and illustrating the connection to PH port on FP-001

Programming your Bill Acceptor

1. On the left-hand side of the bill acceptor, just above the DIP switches, there is an RJ-45 port. Plug one end of the RJ-45 connector cable into this port and the other end into the PH port on the FP-001 programming module.
2. The **L4** light on the top of the FP-001 module initially illuminates solid green, and after a brief time, changes to a blinking green.

Figure 4: L4 light

3. Move the 3-position switch to the **L3** position, and then press the **RESET/START** button on the top of the programming module.

WARNING: Do not, under any circumstances, press the **RESET/START** button a second time, as doing so may cause damage to the programming module. Should you do so inadvertently, disconnect the programming module and DC power from the bill acceptor **IMMEDIATELY** and restart the procedure.

4. The **L4** light on the top of the FP-001 module starts blinking red to indicate that the programmer is working. The blinking will gradually accelerate. After 45 to 60 seconds, you will hear the bill acceptor begin to cycle, and the **L4** light will illuminate amber, indicating that it is done sending the new firmware to the bill acceptor.
5. Press the **RESET/START** button on the top of the programming module. This resets the bill acceptor.
6. The lights in the bill slot on the bill acceptor will now be flashing. This indicates that the bill acceptor is awaiting calibration.
7. Insert the calibration card that was provided with the programmer, being careful to insert it straight so it can go through the bill acceptor smoothly. The programmer is supplied with two cards: one for V6 bill acceptors (in the US) and one for V7 bill acceptors (in Canada). The card with the shorter black bars is for V6 bill acceptors, while the card with the wider black bars is for V7 bill acceptors. (The V7 card itself is also wider than the V6 card.)
8. The calibration card will go in partially, slide back out, then go in again, then slide back out the front of the bill acceptor (it won't go all the way in.) When it is pushed out again and then stops, pull it out of the slot and store it for the next time you have to program another bill acceptor.
9. Press the **RESET/START** button on the top of the programming module. This resets the bill acceptor.
10. Disconnect the programming module from the bill acceptor, as well as the other cable that is plugged into the other side of the bill acceptor.

Now that calibration is complete, the bill acceptor is ready to be tested.

Testing the Upgrade

1. Launch the Operator Interface, and run a bill acceptor test from the **Money > Options** menu.
2. Run a bill through the bill acceptor and ensure that it credits correctly. If the bill does not credit correctly, repeat the programming procedure.

Labeling the Upgraded Bill Acceptor

Now that your bill acceptor supports the new Canadian $5 and $20 bills, you should apply a label that indicates this. An artwork file should have been included with your download of this document. You can print the file in question onto 1” x 1” labels, such as ULINE S-8336.

Apply the label in the location indicated in figure 4.

Figure 5: Applying the update label

Contacting TouchTunes Technical Support

If you need help with or have questions about this document, contact TouchTunes by:

- using the e-mail links on the Contacts page on the TouchTunes Dashboard at https://operator.touchtunes.com
- calling TouchTunes 24/7 Service Hotline at 847-353-1954

To help us assist you more effectively with problem reports, this information may be required when contacting TouchTunes Support:

- Jukebox model, such as Virtuo, Allegro MX-1, Ovation II
- Jukebox ID
- the serial number of any component you believe to be defective
- the date/time of the problem
- actions performed immediately before the problem occurred
- any additional comments

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